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TITLE : POSITIVE ELECTRODE ACTIVE MATERIAL FOR LITHIUM SECONDARY BATTERY

ABSTRACT : PROBLEM TO BE SOLVED: To provide a positive electrode active material less influenced by chloride substance such as residual Li, Na, K not reacted by specifying the content of the root sulfate in a composite oxide between lithium and transient metal in a lithium secondary battery.

SOLUTION: The positive electrode active material for a lithium secondary battery is expressed by general formula: $Li_xM_yO_2$. In this formula, x is 0.3 to 1.2, y is 0.8 to 1.2, and M denotes a transient metal. In this positive electrode active material, the content of the root sulfate (SO_4) in the composite oxide between lithium and transient metal is set to 0.1 to 2.0wt.% to the composite oxide expressed by the above formula. Therefore, before pasting the above composite oxide, sulfuric salt substance such as sodium sulfated potassium sulfate is added to the composite oxide. Solvent is then added to the composite oxide and pasted and this is applied to an aluminum foil as a positive electrode active material. As a result, corrosion of the aluminum foil surface being a positive electrode collector and deterioration of the battery characteristics can be restricted.